

15KV PRIMARY SERVICE EQUIPMENT SCHEDULE							
LOCATION NO.	MANUFACTURER AND MODEL OR CAT.NO.	NO.	DESCRIPTION	SWITCHING POSITIONS			SERVICE
				FUSES/JUNCTIONS	ARRESTERS	FAULT IND.	
49955	EXISTING SWITCHING CUBICLE	1	1-600A-3P	N/A			---
		2	1-600A-3P	N/A			---
		3	1-200A-3P	---			XFMR #67
		4	1-200A-3P	---			---
T67	EXISTING PADMOUNT TRANSFORMER 300 KVA, 12.47KV Y - 480Y/277V	1	1-200A-3P		•		
		2	1-200A-3P		•		
T73	EXISTING PADMOUNT TRANSFORMER 500 KVA, 12.47KV Y - 480Y/277V	1	1-200A-3P		•		
		2	1-200A-3P		•		
T74	EXISTING PADMOUNT TRANSFORMER 500 KVA, 12.47KV Y - 480Y/277V	1	1-200A-3P		•		
		2	1-200A-3P		•		
T79	NEW PADMOUNT TRANSFORMER 500 KVA, 12.47KV Δ - 480Y/277V	1	1-200A-3P		•		
		2	1-200A-3P		•		
T80	NEW PADMOUNT TRANSFORMER 1000 KVA, 12.47KV Δ - 480Y/277V	1	1-200A-3P		•		
		2	1-200A-3P		•		

MEDIUM VOLTAGE ONE-LINE DIAGRAM PARTIAL LEGEND

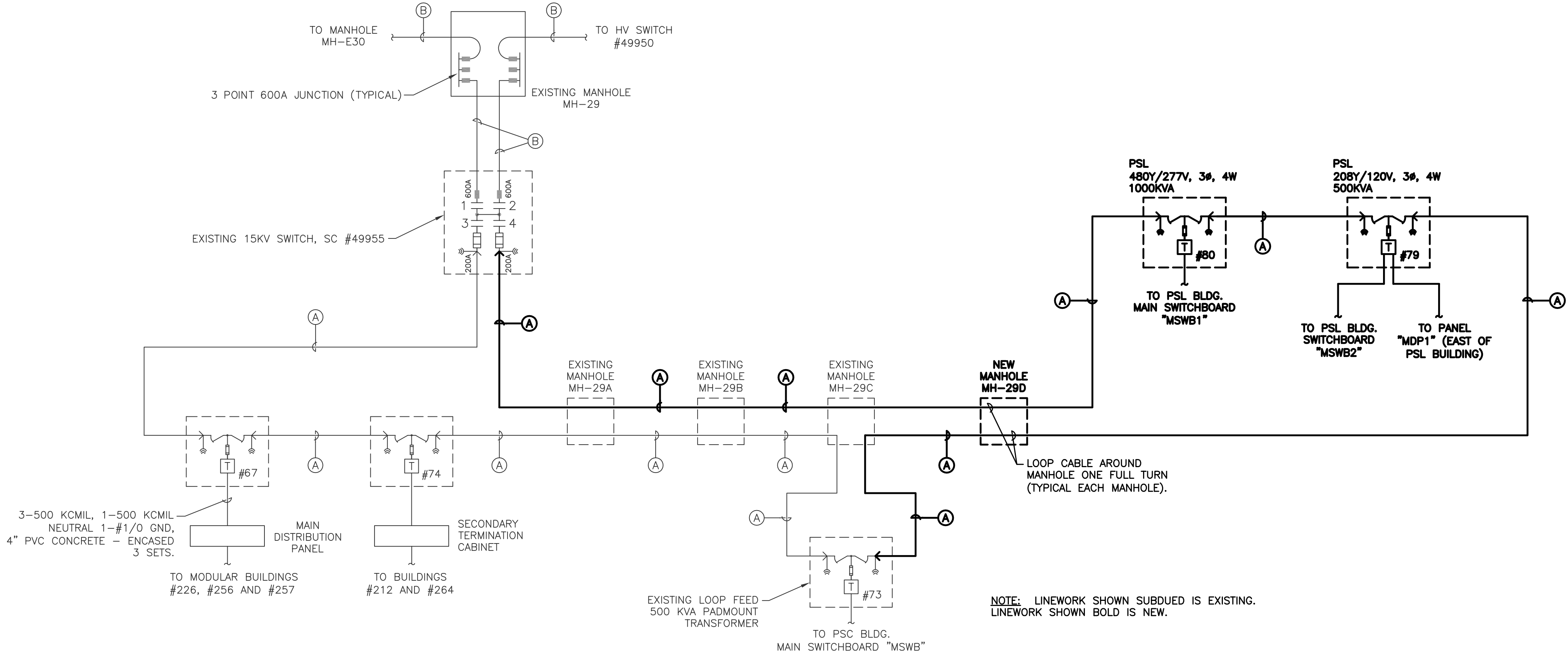
- #5(T) TRANSFORMER STATION & NUMBER
- 4 UNFUSED AIR BREAK SWITCH OR SWITCH IN OIL & NUMBER (NORM. OPEN)
- 2 UNFUSED AIR BREAK SWITCH OR SWITCH IN OIL & NUMBER (NORM. CLOSED)
- 1-2 VACUUM SWITCH & NUMBER (NORM. CLOSED UNLESS OTHERWISE NOTED)
- OIL IMMERSED FUSE
- PRIMARY OR SECONDARY WIRING
- AERIAL PRIMARY
- 600A, 15 KV CONNECTOR
- LOADBREAK ELBOW CONNECTION, 200A, 15 KV
- 100A FIXED SEC. CIRCUIT BREAKER AND AMPERE RATING
- ⊖ KWH METER & C.T.S.
- ⊖ SURGE ARRESTER
- ⊖ 3-PHASE FAULT INDICATOR & SENSORS
- 15 KV SPLICE

GENERAL NOTES:

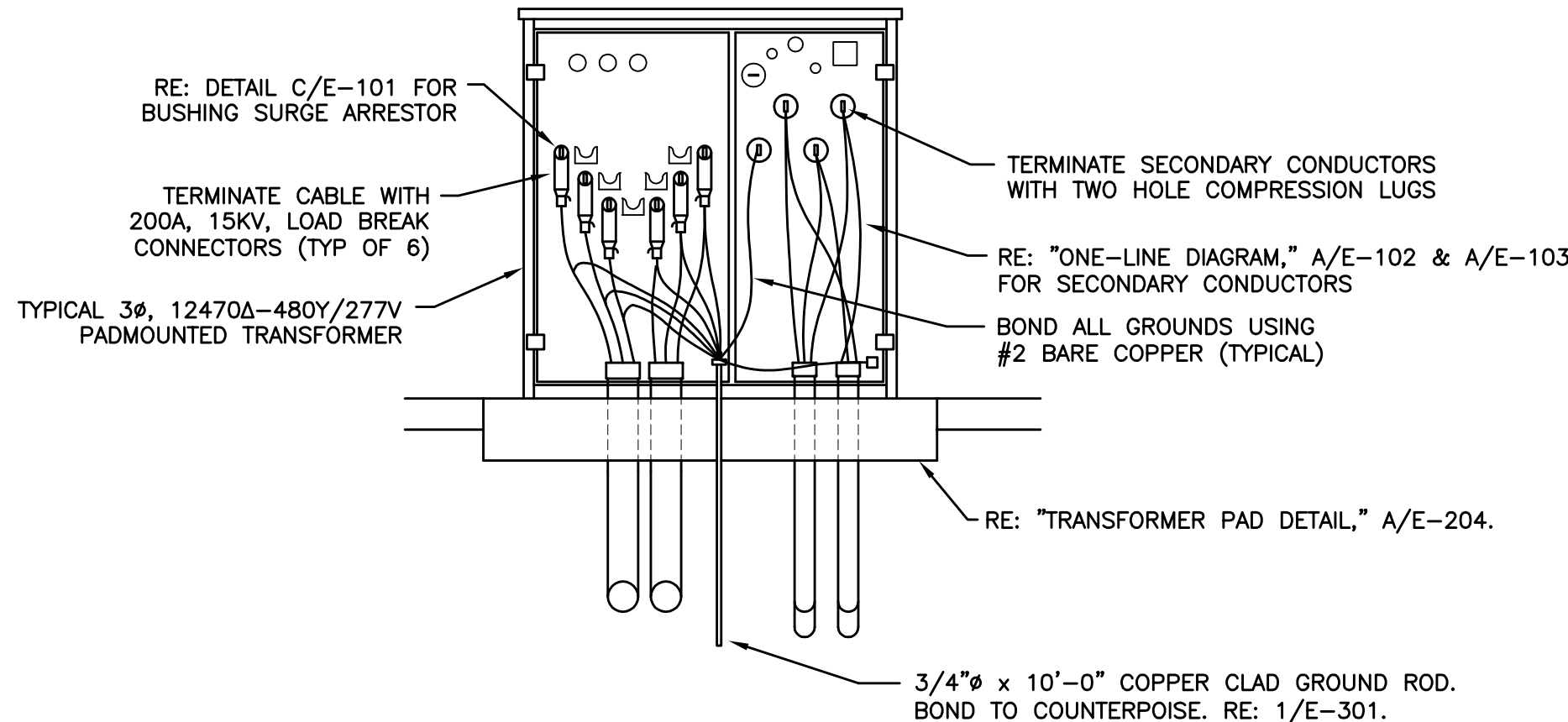
- A. CONTRACTOR SHALL ADJUST TAP SETTINGS OF ALL TRANSFORMERS AS NEEDED TO OBTAIN RATED VOLTAGE AT FIRST DOWNSTREAM PANELBOARD UNDER FULL LOAD OPERATION.
- B. COORDINATE ALL MEDIUM VOLTAGE WORK AT LEAST 8 CALENDAR DAYS PRIOR TO ANY OUTAGE WITH THE OCAT REPRESENTATIVE. THE OCAT ELECTRICAL CONTRACTOR (LIBRA ELECTRIC) SHALL PERFORM ALL MEDIUM VOLTAGE SWITCHING OPERATIONS AND OUTAGES.

15KV CIRCUITING SCHEDULE

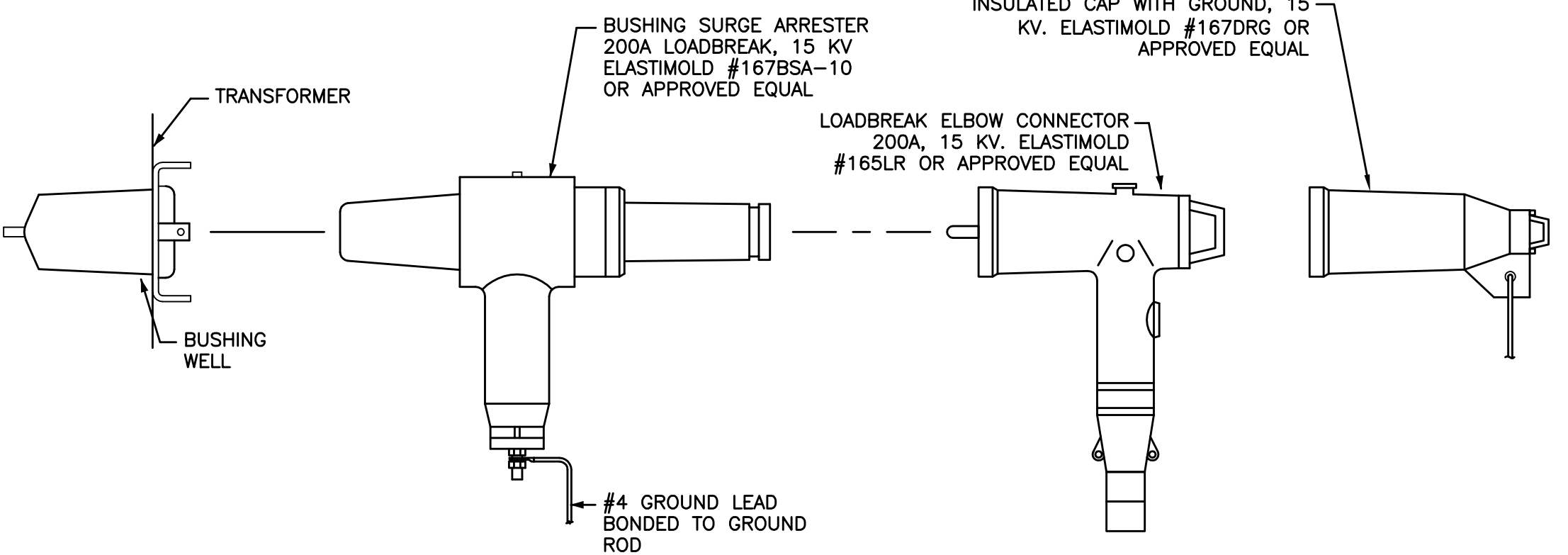
MARK	DESCRIPTION
A	3 #2/0 KCMIL, 15KV AL WITH CONCENTRIC NEUTRAL AND OVERALL JACKET IN DUCT OR CONDUIT
B	3 #750 KCMIL, 15KV AL WITH CONCENTRIC NEUTRAL AND OVERALL JACKET IN DUCT OR CONDUIT



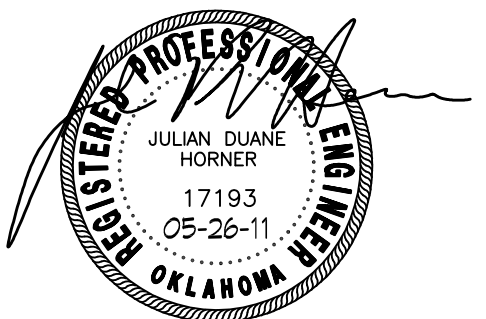
A MEDIUM VOLTAGE ONE-LINE DIAGRAM  
NO SCALE



B TRANSFORMER CONNECTION DETAIL  
NO SCALE



C BUSHING SURGE ARRESTOR DETAIL  
NO SCALE



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100% SUBMITTAL				
REV	DATE	DESCRIPTION	CHECK	APP'D
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION MIKE MONRONEY AERONAUTICAL CENTER - OKLAHOMA CITY, OKLAHOMA PSL - POWER SERVICES LABORATORY				
MEDIUM VOLTAGE ONE-LINE DIAGRAM Construction Work Request No: 09-018745				
PREPARED BY Rees Associates		APPROVED BY Jon Berkman		
DESIGNED JGH	ISSUED BY OFFICE OF FACILITY MANAGEMENT BLP	DATE May 26, 2011	E-101	
DRAWN BLP	WORK ORDER NO. 09-018745	DRAWING NO. 08-008257	2 of 31	